



# Rescal 10 CRSR

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Rescal 10 CRSR  
CAS-No. : Mixture  
Product code : 7020  
Other means of identification : Alumina-Chrome Brick

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory Brick  
Recommended use : Industrial use

#### 1.3. Supplier

Resco Products, Inc.  
One Robinson Plaza, Suite 300  
6600 Steubenville Pike  
Pittsburgh, PA 15205 - United States  
412-494-4491

[SDS@RescoProducts.com](mailto:SDS@RescoProducts.com) - [WWW.RescoProducts.com](http://WWW.RescoProducts.com)

#### 1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300  
Outside USA & Canada +1 703-741-5970

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 2 H315 Causes skin irritation

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H315 - Causes skin irritation  
Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear Safety shoes, protective gloves, eye protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                         | Product identifier  | %       | GHS US classification |
|------------------------------|---------------------|---------|-----------------------|
| aluminium oxide, non-fibrous | (CAS-No.) 1344-28-1 | 75 – 95 | Not classified        |
| chromium(III) oxide          | (CAS-No.) 1308-38-9 | 5 – 10  | Not classified        |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Gently wash with plenty of soap and water.  
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Coughing.  
Symptoms/effects after skin contact : Causes skin irritation.

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Symptoms/effects after eye contact : Causes eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : In case of fire, all extinguishing media allowed.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Non-flammable.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : No specific fire-fighting instructions required.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety shoes. Protective gloves. Safety glasses.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Collect spillage.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store this product in a dry location where it can be protected from the elements.

Incompatible products : Strong bases. Strong acids.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Rescal 10 CRSR (Mixture)

No additional information available

#### aluminium oxide, non-fibrous (1344-28-1)

##### USA - ACGIH - Occupational Exposure Limits

|                                |                                     |
|--------------------------------|-------------------------------------|
| ACGIH TWA (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup> respirable dust |
|--------------------------------|-------------------------------------|

#### chromium(III) oxide (1308-38-9)

##### USA - ACGIH - Occupational Exposure Limits

|                                |  |
|--------------------------------|--|
| ACGIH TWA (mg/m <sup>3</sup> ) | 0.003 mg/m <sup>3</sup> (Inhalable fraction) |
|--------------------------------|--|

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations. Dust when sawing or tear out.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear safety shoes.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear appropriate mask

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Red-Purple Brick Shape.

Color : red Purple

Odor : odorless

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|   |                       |
|---|-----------------------|
| Odor threshold                                  | : No data available   |
| pH  | : No data available   |
| Melting point                                   | : > 2500 °F           |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : No data available   |
| Relative evaporation rate (butyl acetate=1)     | : No data available   |
| Flammability (solid, gas)                       | : Non flammable.      |
| Vapor pressure                                  | : No data available   |
| Relative vapor density at 20 °C                 | : No data available   |
| Relative density                                | : ≈ 3.1               |
| Solubility                                      | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Viscosity, kinematic                            | : No data available   |
| Viscosity, dynamic                              | : No data available   |
| Explosion limits                                | : No data available   |
| Explosive properties                            | : No data available   |
| Oxidizing properties                            | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Fire conditions may produce small amounts of hexavalent chromium and other oxidation products.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| aluminium oxide, non-fibrous (1344-28-1) |   |
|--|---|
| LD50 oral rat                            | > 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |
| LC50 Inhalation - Rat                    | 7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))  |

| chromium(III) oxide (1308-38-9) |  |
|---------------------------------|--|
| LD50 oral rat                   | > 15000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)                           |
| LC50 Inhalation - Rat           | > 5.41 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol)) |

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | : Causes skin irritation. |
| Serious eye damage/irritation     | : Not classified          |
| Respiratory or skin sensitization | : Not classified          |
| Germ cell mutagenicity            | : Not classified          |
| Carcinogenicity                   | : Not classified          |
| Reproductive toxicity             | : Not classified          |
| STOT-single exposure              | : Not classified          |
| STOT-repeated exposure            | : Not classified          |
| Aspiration hazard                 | : Not classified          |
| Viscosity, kinematic              | : No data available       |

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### chromium(III) oxide (1308-38-9)

|                                     |                           |
|-------------------------------------|---------------------------|
| Symptoms/effects after inhalation   | : Coughing.               |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact  | : Causes eye irritation.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### chromium(III) oxide (1308-38-9)

|             |   |
|-------------|---|
| LC50 fish 1 | > 2.9 µg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP) |
|-------------|---|

### 12.2. Persistence and degradability

#### aluminium oxide, non-fibrous (1344-28-1)

|                               |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not applicable. |
| Chemical oxygen demand (COD)  | Not applicable  |
| ThOD                          | Not applicable  |

#### chromium(III) oxide (1308-38-9)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)  |
| ThOD                          | Not applicable (inorganic)  |

### 12.3. Bioaccumulative potential

#### aluminium oxide, non-fibrous (1344-28-1)

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

#### chromium(III) oxide (1308-38-9)

|                           |   |
|---------------------------|---|
| BCF fish 1                | 260 – 800 (Lepomis macrochirus, Fresh water, Read-across, Fresh weight) |
| Bioaccumulative potential | Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).      |

### 12.4. Mobility in soil

#### aluminium oxide, non-fibrous (1344-28-1)

|                |                    |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

#### chromium(III) oxide (1308-38-9)

|                 |                        |
|-----------------|------------------------|
| Surface tension | Not applicable (solid) |
| Ecology - soil  | Adsorbs into the soil. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |  |
|--|--|
| Product/Packaging disposal recommendations | : Do not discharge into the sewer.   |
| Additional information                     | : Chromite (Cr <sup>+3</sup> ) may in normal use be converted chemically to a chromate (Cr <sup>+6</sup> ).<br>Hexavalent chromium (Cr <sup>+6</sup> ) is considered a hazardous material. |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transportation of Dangerous Goods

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Rescal 10 CRSR (Mixture)

|      |   |
|------|---|
| Note | This information must be included in all SDS's that are copied and distributed for this material. |
|------|---|

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### aluminium oxide, non-fibrous (1344-28-1)

|   |
|---|
| Not subject to reporting requirements of the United States SARA Section 313 |
|---|

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| aluminium oxide, non-fibrous (1344-28-1) |  |
|--|--|
| Note                                     | Note: The section 313 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting. |

| chromium(III) oxide (1308-38-9)                                     |  |
|---|--|
| Subject to reporting requirements of United States SARA Section 313 |  |

### 15.2. International regulations

#### CANADA

| aluminium oxide, non-fibrous (1344-28-1)              |  |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) |  |
| chromium(III) oxide (1308-38-9)                       |  |
| Listed on the Canadian DSL (Domestic Substances List) |  |

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

| Rescal 10 CRSR (Mixture)                               |   |
|--|---|
| U.S. - California - Proposition 65 - Other information | This product contains chromite (Cr <sup>+3</sup> ) which may in normal use, be converted chemically to a chromate (Cr <sup>+6</sup> ) hexavalent chrome, a chemical known to the State of California to cause cancer. |

| Component                                | State or local regulations  |
|--|---|
| aluminium oxide, non-fibrous (1344-28-1) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| chromium(III) oxide (1308-38-9)          | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List   |

## SECTION 16: Other information

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: 06/30/2021

Other information

: Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

Full text of H-phrases:

|      |                        |
|------|------------------------|
| H315 | Causes skin irritation |
|------|------------------------|

SDS US (GHS HazCom 2012)

*This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.*